PATENT COOPERATION TREAT					
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#### INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

28 FEB 2005

A ===	   a==4			<del></del>				
Applicant's or agent's file reference CPW/20693		FOR FURTHER ACTION  See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)						
				International filing d 29.08.2003	ate (day/month/year)	Priority date (day/month/year) 29.08.2002		
	nation K45/		ent Classification (IPC) or	both national classificati	ion and IPC			
	icant LA L	TD:e	balz mana samus ne	rents at a compatible of the		and have confused and make the second of the second of		
1.	This Auth	s inter hority	national preliminary exa and is transmitted to th	amination report has I e applicant according	been prepared by thi to Article 36.	s International Preliminary Examining		
2.	This	REP	ORT consists of a total	of 5 sheets, includin	g this cover sheet.			
		200	report is also accompa n amended and are the Rule 70.16 and Section	Dasis for this report :	anaine contair	cription, claims and/or drawings which have ning rectifications made before this Authority		
	The		nexes consist of a total			inder the 1 01).		
3.	This	repor	t contains indications r	elating to the following	g items:	the Mark and the same of the s		
	ı	$\boxtimes$	Basis of the opinion					
	11		Priority					
	Ш	$\boxtimes$	Non-establishment of	opinion with regard to	to novelty, inventive step and industrial applicability			
	IV		Lack of unity of invent	ion	o novely, inventive s	nep and industrial applicability		
	٧	$\boxtimes$	·	under Rule 66.2(a)(ii)	with regard to novel statement	ty, inventive step or industrial applicability;		
	VI		Certain documents cit	ed				
	VII		Certain defects in the	international applicati	ion .			
	VIII		Certain observations	on the international ap	plication	A DELEVITOR OF THE PROPERTY OF		
				; -				
Date of submission of the demand			Date of completion	of this report				
22.03	22.03.2004				24.11.2004			
Name	Name and mailing address of the international			al	Authorized Officer			
preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465				Blott, C Telephone No. +49	0 89 2399-7538			

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## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/GB 03/03751

i.	Bas	sis	of	the	re	po	rt
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	scription, Pages						
	1-2	6	as originally filed					
• •1• •	Cla	ims, Numbers	and the second of the second of the second of the second was a second to the second second the second of the secon					
	1-3	3	as originally filed					
2.	Wit lan	h regard to the <b>langu</b> a guage in which the int	age, all the elements marked above were available or furnished to this Authority in the ernational application was filed, unless otherwise indicated under this item.					
	The	ese elements were ava	ailable or furnished to this Authority in the following language: , which is:					
		the language of a tra	inslation furnished for the purposes of the international search (under Rule 23.1(b)).					
		the language of publ	ication of the international application (under Rule 48.3(b)).					
		the language of a tra Rule 55.2 and/or 55.3	nslation furnished for the purposes of international preliminary examination (under 3).					
3.	Wit inte	h regard to any <b>nucle</b> rnational preliminary e	otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:					
		contained in the inter	rnational application in written form.					
,r · ·	`П "	Tilled together with the international application in computer readable form.						
		furnished subsequen	ntly to this Authority in written form.					
		furnished subsequen	ntly to this Authority in computer readable form.					
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.						
		The statement that the listing has been furni	ne information recorded in computer readable form is identical to the written sequence ished.					
4.	The	amendments have re	esulted in the cancellation of:					
		the description,	pages:					
		the claims,	Nos.:					
		the drawings,	sheets:					
5.		This report has been been considered to g	established as if (some of) the amendments had not been made, since they have go beyond the disclosure as filed (Rule 70.2(c)).					
		(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to the report.)						
6.	Add	litional observations, i	f necessary:					

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II.	Non	-establishment of opinion wit	th rega	ard to novel	ty, inventive step and industrial	applicability	$\mathcal{S}$	
1.	. The questions whether the claimed invention appears to be novel, to involve an inventive step (to be obvious), or to be industrially applicable have not been examined in respect of:							
		the entire international applicat	ion,				<u> </u>	
	$\boxtimes$	claims Nos. 31-33					<u>ā</u>	
		because:					8	
	፟⊠ .	the said international application following subject matter which	n, or t does r	he said claim not require ar	s Nos. 31-33 (industrial applicabili n international preliminary examina	ty) relate to the tion (specify):	Best Available Copy	
		see separate sheet					മ	
		the description, claims or draw that no meaningful opinion cou	ings <i>(ii</i> Ild be f	ndicate partid ormed (spec	cular elements below) or said claim ify):	s Nos. are so unclear		
		the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.						
	□.	no international search report l	nas be	en establishe	ed for the said claims Nos.			
2.	or a	A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and/ or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:						
		the written form has not been to	furnish	ed or does n	ot comply with the Standard.			
		the computer readable form ha	as not	been furnishe	ed or does not comply with the Sta	ndard.		
٧.	Rea cita	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1.	Sta	tement						
	Nov	velty (N)	Yes: No:	Claims Claims	2,4-7,9-26,28,32 1,3,8,27,29-31,33			
	Inv	entive step (IS)	Yes: No:	Claims Claims	1-33	at se		
	ind	ustrial applicability (IA)		Claims Claims	1-30			

2. Citations and explanations

see separate sheet

### INTERNATIONAL PRELIMINARY



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#### **EXAMINATION REPORT - SEPARATE SHEET**

#### Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

Claims 31-33 relate to a subject-matter considered by this authority to be covered by the provisions of Rule 67.1(iv) PCT. Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Art. 34(4)(a)(i) PCT).

#### Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following document/s/:

- D1: US-B-6 423 2982 (D.P.MCNAMARA, G.A.DESTEFANO) 23 July 2002 (2002-07-23)
- D2: M.MIRAVITLLES E.A.: "Treatment and quality of life in patients with chronic obstructive pulmonary disease" QUALITY OF LIFE RESEARCH, vol. 11, no. 4, 2002, pages 329-338, XP008018999
- D3: WO 02/07672 A (AEROPHARM TECHNOLOGY) 31 January 2002 (2002-01-31)
- D4: R.K.GUPTA, S.K.CHHABRA: "An evaluation of salmeterol in the treatment of chronic obstructive pulmonary diseases" THE INDIAN JOURNAL OF CHEST DISEASES & ALLIED SCIENCES, vol. 44, no. 3, 2002, pages 165-172, XP008018997
- a) D1 discloses pharmaceutical preparation for propellant driven metered dose inhalers comprising at least two active substances e.g. beclometasone; budesonide, cromoglycinic acid, fenoterol, flunisolide, fluticasone, ipratropium bromide, nedocromil, orciprenaline, oxitropium bromide, reproterol, salbutamol (albuterol), salmeterol, terbutalin. One particularly preferred embodiment comprises suspended salbutamol sulphate, dissolved ipratropium bromide, ethanol as co-solvent and citric acid as stabiliser.
- b) In document D2, patients with COPD were treated with a short-acting β2 agonist. ipratropium bromide and an inhaled corticosteroid (budesonide, fluticasone or beclomethasone (cf. p. 332, col. 2, table II).
- c) D3 discloses a medicinal aerosol formulation, which comprises at least two different particulate medicaments selected from the group consisting of β2 adrenergic agonists. corticosteroids, anticholinergics, histamine antagonists, nonsteroidal antiinflammatory agents and leucotriene modulators.
- d) In D4, patients inhaled four-times-daily ipratropium and twice-daily beclomethasone



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dipropionate, together with salmeterol (twice daily) or placebo. Inhaled salbutamol was given on an as-needed basis (cf. abstract and p. 166, col. 2).

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 1, 3, 8, 27, 29-31, 33 is not new over D4 in the sense of Article 33(2) PCT.

Claims 2, 4-7, 9-26, 28, 32 do not seem to contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of inventive step, see documents D2 and D4 and the corresponding passages cited in the search report (Article 33(3) PCT).

It is pointed out that no evidence for the claimed effect has been provided by the applicant. The application does not provide any results of tests carried out with the products in the field of activity at issue.

For the assessment of the present claims 31-33 on the question whether they are industrially applicable, no unified criteria exist in the PCT Contracting States. The patentability can also be dependent upon the formulation of the claims. The EPO, for example, does not recognize as industrially applicable the subject-matter of claims to the use of a compound in medical treatment, but may allow claims to a known compound for first use in medical treatment and the use of such a compound for the manufacture of a medicament for a new medical treatment.

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